acrylate, hexyl acrylate, and butyl acrylate; polyamide resins, such as poly(aminocarbonyltetramethylenecarbonylaminomethylene-1,3cyclohexylenemethylene); polyester resins such as poly[oxycarbonyl(1,3phenylene) carbonyloxymethylene (tricyclo [4.3.0.1.sup.2.5]-3,8-diyl)methylene]; polyether resins such as poly(butylene oxide), poly[oxy(2-methyl-2-hydroxytrimethylene)oxy(1,4phenylene)isopropylidene(1,4-phenylene)]; polycarbonate resins such as poly[oxycarbonyloxy(2-methyl-1,4-cyclohexylene]-isopropylidene(3-methyl-1,4-cyclohexylene)]; and polyurethane resins.

SUMM The coating agent used for forming the hard coating layer may be either a silicone-type coating agent or an organic-type coating agent. Silicone-type coating agents are partially hydrolyzed products of silane compounds. Organic-type coating agents include coating agents comprising coating materials based on melamine, alkyd, urethane or acrylic which are cured by heating and ultraviolet curable coating agents comprising multi-functional acrylic monomers or the like which are cured by ultraviolet light. Ultraviolet curable coating agents are preferable because they can be cured under conditions that hardly cause the thermal deformation of thermoplastic saturated norbornene polymer and that give sufficient hardness and weather resistance.

The molded articles of the polymer composition of the present invention are excellent in adhesiveness to various materials in various applications as compared with those from thermoplastic saturated norbornene polymers incorporated with no rubber-like polymer: namely, in adhesion, to thermosetting adhesives such as phenolic adhesives, polyester-type adhesives, epoxy adhesives and silicone adhesives, thermoplastic adhesives such as poly(vinyl acetate) -based adhesives, poly(vinyl alcohol)-based adhesives, poly(vinyl chloride) -based adhesives, and nitrocellulose-based adhesives, butadiene-acrylonitrile rubber-based adhesives and neoprene-based adhesives; in coating, to oil paints such as enamel, alcoholic coating materials such as quick-drying varnish and alcohol-soluble phenolic resin varnish, cellulosic coating materials such as ethylcellulose lacquer, synthetic resin coating materials such as vinyl resin varnish, water paints such as synthetic rubber latex paints, and rubber-based paints such as chlorinated rubber paint; in forming hard coating layers and protective coating layers, to thermosetting organic coating agents based on melamine, alkyd, urethane and acryl, polyfunctional acrylic ultraviolet curable organic coating agents and silicone coating agents; in the so-called 2P process wherein fine structures of stampers and the like are transferred to coated materials, to ultraviolet curable acrylic coating materials and reaction curable epoxy coating materials; and when formed into optical disks and the like, to metallic reflecting film formed of metals having high reflectance, such as nickel, aluminum and Gold, deposited by vacuum vapor deposition, sputtering, etc., and to magneto-optical recording film formed of Tb--Fe--Co alloy, etc.

=> d his full

L1

(FILE 'HOME' ENTERED AT 20:21:59 ON 03 JUN 2007) SET ABBR ON PERM SET PLURALS ON PERM

FILE 'USPATFULL, USPAT2, CAPLUS, JAPIO' ENTERED AT 20:22:41 ON 03 JUN 2007 6655 SEA ABB=ON PLU=ON (METATHESIS OR METATHETIC? OR RING(1A) OPEN?)(5A)(OLEFIN# OR CYCLIC(1W) OLEFIN OR CYCLOOOLEFIN OR DICYCLOPENTADIEN? OR DCPD)

SUMM

L4

L5

L6

L2 11 SEA ABB=ON PLU=ON L1 AND GOLF(2A) CLUB#
D L2 1-11 IBIB ABS

FILE 'STNGUIDE' ENTERED AT 20:27:18 ON 03 JUN 2007

FILE 'USPATFULL, USPAT2, CAPLUS, JAPIO' ENTERED AT 20:32:15 ON 03 JUN 2007

FILE 'USPATFULL, USPAT2, CAPLUS, JAPIO' ENTERED AT 20:33:06 ON 03 JUN 2007
L3 49252 SEA ABB=ON PLU=ON (TOUGH? OR HARD? OR IMPACT?)(S)(SILICONE#
OR SILOXANE# OR POLYSILOXANE#)

49 SEA ABB=ON PLU=ON L1 AND L3

45407 SEA ABB=ON PLU=ON L4 AND OSMIUM OR RUTHENIUM(S) (CATALYS? OR CATALYZ?)

23 SEA ABB=ON PLU=ON L4 AND (OSMIUM OR RUTHENIUM) (S) (CATALYS? OR CATALYZ?)

D L4 1-49 IBIB ABS

D L4 36 IBIB HIT

D L4 35 IBIB HIT

D L4 34 IBIB HIT

FILE HOME

FILE USPATFULL

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 31 May 2007 (20070531/PD)
FILE LAST UPDATED: 31 May 2007 (20070531/ED)
HIGHEST GRANTED PATENT NUMBER: US7225469
HIGHEST APPLICATION PUBLICATION NUMBER: US2007124841
CA INDEXING IS CURRENT THROUGH 31 May 2007 (20070531/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 31 May 2007 (20070531/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2006
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2006

FILE USPAT2

FILE COVERS 2001 TO PUBLICATION DATE: 15 Mar 2007 (20070315/PD)
FILE LAST UPDATED: 31 May 2007 (20070531/ED)
HIGHEST GRANTED PATENT NUMBER: US2007108694
HIGHEST APPLICATION PUBLICATION NUMBER: US2007122077
CA INDEXING IS CURRENT THROUGH 29 May 2007 (20070529/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 15 Mar 2007 (20070315/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2006
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FILE CAPLUS

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>>> GRAPHIC IMAGES AVAILABLE <<<

FILE STNGUIDE

FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: May 25, 2007 (20070525/UP).

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	L11	L10 and ruthenium or osmium	11031
	L10	(golf club head or golf club shaft and polyolefin and metathesis or ring opened).clm.	171004
	L9	L8 and carbene near4 catalyst	24
	L8	(polyolefin and metathesis and ruthenium or osmium and silicone or siloxane or polysiloxane).clm.	6201
	DB=PC	GPB, USPT; PLUR=YES; OP=OR	
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	L6	(526/283)![CCLS]	607
	L5	(524/731)![CCLS]	402
	L4	(524/554)![CCLS]	145
	L3	(473/282)![CCLS]	204
	L2	(473/316)![CCLS]	253
	L1	(473/349)![CCLS]	959

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